PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220			
AP102017	ACTION	as wel	as, where applicable, item 5 below.			
International application No.	International filing date (day/mor	th/year)	(Earliest) Priority Date (day/month/year)			
PCT/F12004/000678	15/11/200	1	18/11/2003			
Applicant						
NURMI, Jussi						
Actual, Cubbi						
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Se ansmitted to the International Bure	arching Aut au.	nority and is transmitted to the applicant			
This International Search Report consists	of a total of <u>3</u> s	heets.				
X It is also accompanied by	a copy of each prior art document	cited in this	report.			
Basis of the report						
a. With regard to the language, the language in which it was filed, unl	international search was carried or ess otherwise indicated under this	ut on the ba item.	sis of the international application in the			
The international this Authority (Ru		s of a transl	ation of the international application furnished to			
b. With regard to any nucleo	otide and/or amino acid sequenc	e disclosed	in the international application, see Box No. I.			
2. Certain claims were fou	nd unsearchable (See Box II).					
3. Unity of invention is lace	king (see Box III).					
4. With regard to the title,	With regard to the title,					
X the text is approved as su	bmitted by the applicant.					
the text has been establis	hed by this Authority to read as fol	lows:				
			•			
·						
E Mith regard to the chatmet						
5. With regard to the abstract, X the text is approved as su	bmitted by the applicant.					
the text has been establis	hed, according to Rule 38.2(b), by	this Authori	ty as it appears in Box No. IV. The applicant			
may, within one month fro	m the date of mailing of this intern	ational sear	ch report, submit comments to this Authority.			
6. With regard to the drawings,	•					
a. the figure of the drawings to be p	•	No. <u>3a</u>				
as suggested by the		foiled to our				
I	s Authority, because the applicant s Authority, because this figure be					
	e published with the abstract.					

AVAILABLE

A. CLASSIFICATION OF SUBJECT MATTER ·F16K11/08 B01D29/66 ÎPC 7 G01N1/28 B01L3/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) BOIL GOIN F16K BOID A61B A61M Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category ° Citation of document, with indication, where appropriate, of the relevant passages 02 1-13.17WO 02/04921 A2 (COULTER INTERNATIONAL X CORP) 17 January 2002 (2002-01-17) page 11, line 1 - page 23, line 24; 14-16,18Α figures 1-4; example 8 US 6 106 483 A (GUIRGUIS ET AL) 1-13.17X D2 22 August 2000 (2000-08-22) column 2, line 65 - column 4, line 15 column 8, line 32 - column 10, line 8; figures 7-12 14,16 US 4 581 014 A (MILLERD ET AL) D? X 8 April 1986 (1986-04-08) column 9, line 36 - column 12, line 52; figures 9-18 Patent family members are listed in annex. Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention *E* earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means in the art. document published prior to the international filing date but "&" document member of the same patent family later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 28 January 2005 24/02/2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 2 Tiede, R

	Patent document cited in search report		Publication date	,	Patent family member(s)	Publication date
	UO 0204021	A2	17-01-2002	US	6692702 B1	17-02-2004
	WO 0204921	HZ.	17-01-2002	EP	1299705 A2	09-04-2003
				JP	2004503745 T	05-02-2004
				US	2004303745 T 2004132208 A1	08-07-2004
				US	2004132198 A1	08-07-2004
					2004132198 A1 2002123154 A1	
				US 		05-09-2002
	US 6106483	Α	22-08-2000	US	5139031 A	18-08-1992
				US	5042502 A	27-08-1991
				US	4953561 A	04-09-1990
				US	5024238 A	18-06-1991
				US	4961432 A	09-10-1990
1				US	5429803 A	04-07-1995
			-	US	6423237 B1	23-07-2002
				US	6309362 B1	30-10-2001
				AU	1778992 A	02-11-1992
				CA	2084778 A1	09-10-1992
				EP	0533912 A1	31-03-1993
				JP	3179785 B2	25-06-2001
				JP	6500403 T	13-01-1994
				WO	9217110 A1	15-10-1992
				US	5471994 A	05-12-1995
				US	5301685 A	12-04-1994
				AU	8046791 A	23-01-1992
1				CA	2046833 A1	19-01-1992
				EP	0468672 A1	29-01-1992
				JP	6308126 A	04-11-1994
				US	5224489 A	06-07-1993
				AU	642904 B2	04-11-1993 28-03-1991
				AU	6300690 A 2025261 A1	23-03-1991
				CA EP	0425093 A2	02-05-1991
				JP	3131760 A	05-06-1991
				AT	119071 T	15-03-1995
				AU	644096 B2	02-12-1993
-				AU	6252290 A	21-03-1991
ŀ				DE	69017334 D1	06-04-1995
İ				DE	69017334 T2	29-06-1995
				EP	0419168 A2	27-03-1991
1				ES	2072399 T3	16-07-1995
Ì				JP	3170060 A	23-07-1991
				ÜS	5016644 A	21-05-1991
				US	5022411 A	11-06-1991
				US	5137031 A	11-08-1992
				AT	158706 T	15-10-1997
1				ΑÜ	630653 B2	05-11-1992
1				AU	4789590 A	19-07-1990
				CA	1335787 C	06-06-1995
				DE	69031507 D1	06-11-1997
				DE	69031507 T2	19-03-1998
				EP	0378353 A2	18-07-1990
1				EP	0737443 A2	16-10-1996
				JP	3012262 B2	21-02-2000
				JР	3197864 A	29-08-1991
				ŬS	5024237 A	18-06-1991
				US	4960130 A	02-10-1990
				US	5038793 A	13-08-1991
1						

Patent document cited in search report		Publication date •	•	Patent family member(s)	Publication date
US 4581014	Α	08-04-1986	AU	562433 B2	11-06-1987
			AU	4286885 A	27-11-1986
			CA	1236360 A1	10-05-1988
			DE	3563685 D1	18-08-1988
			EP	0163387 A1	04-12-1985
			JP	61011055 A	18-01-1986
			SE	454747 B	30-05-1988
			SE	8502592 A	25-11-1986
		~~			

BEST AVAILABLE COPY

BEST AVAILABLE COPY

Patentti- ja innovaatiolinja PL 1160 00101 Helsinki

Päiväys

9.6.2004

Tutkijainsinööri

RITVA KARONEN

PATENTTIHA	AKEMUS NRO	LUOKITUS, IPC7				
G01 N 33/ 1/28 C12 Q 1/68 B01 D 29/62						
TUTKITUT P	ATENTTILUOK	AT (luokitusjärjestelmät ja luokkatiedot)				
G01N, C12Q	, B01D 29					
TUTKIMUKS	ESSA KÄYTETY	YT TIETOKANNAT				
EPODOC		-				
VIITEJULKA	ISUT	-				
Kategoria*)	Julkaisun tun	nistetiedot ja tiedot sen olennaisista kohdista	Koskee vaatimuksia			
X	WO 96/14578	WO 96/14578 A1, PHENIX MEDICAL LTD, julk. 17.5.1996.				
x	GB 2 238 003 A, QUANTUM BIOSYSTEMS LTD., julk. 22.5.1991.					
X	US 6 375 856	B1, SESHIMOTO ET AL., julk. 23.4.2002	1-14, 16, 18			
		Jatkuu seuraavalla sivulla				
Y Julkaisu, jonl samaan kategor	ka perusteella keksintö ka perusteella keksintö iaan kuuluva julkaisu y kan tasoa edustava jull		ksi tai useampi			
P Julkaistu enno T Julkaistu hako E Aikaisempi so (etuoikeuspäivä	en hakemuksen tekemi: emuksen tekemispäivä:	ellä, hyväksikäyttämällä tai muutoin muun kuin kirjoituksen avulla. späivää mutta ei ennen aikaisinta etuoikeuspäivää. n tai etuoikeuspäivän jälkeen ja valaisee keksinnön periaatetta tai teoreettista taustaa. n koskeva patentti- tai hyödyllisyysmallihakemus, joka on tullut julkiseksi hakemuksen	ı tekemispäivänä			
L Julkaisu, joka	L Julkaisu, joka kyseenalaistaa etuoikeuden, osoittaa toisen julkaisun julkaisupäivämäärän tai johon viitataan jostakin muusta syystä. & Samaan patenttiperheeseen kuuluva julkaisu.					
& Samaan patei	nttiperheeseen kuuluva	julkaisu.				

Lisätietoja liitteessä